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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/841,595

04/25/2001

Koichi Motoike

206569US2

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06/17/2002

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EXAMINER

WELLS, KENNETH B

ART UNIT

PAPER NUMBER

2816

DATE MAILED: 06/17/2002

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/841,595

Applicant(s)

MOTOIKE, KOICHI

Examiner

Kenneth B. Wells

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 April 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 ~~1-11 12-14 16-18 and 20~~ is/are rejected.
- 7) ☒ Claim(s) 12-15 and 16 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- ☐ Interview Summary (PTO-413) Paper No(s). _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

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1. The amendment filed on 4/30/02 has been received and entered in the case. In view of the arguments presented therein, the previous rejections are now withdrawn and new rejections are set forth.

2. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitation "resonates in series for a reactance component of a gate-to source impedance" makes no sense. It cannot be determined what is meant by this language.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11, 13, 14, 16, 17, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bohan, Jr.

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The recited "FET" reads on transistor 21, the recited "inductor element" reads on element 28 and the recited "first capacitor element" reads on element 26. The limitation on the last five lines of claim 11, though not disclosed, would have been obvious to those having ordinary skill in the art at the time of applicant's invention because the skilled artisan would easily recognize that the inductance of element 28 can be set to any value, without any unexpected changes in circuit operation or result.

The recited "third capacitor element" reads on capacitor 22. The limitation on the last four lines of claim 13, though not disclosed, would have been obvious to those having ordinary skill in the art at the time of applicant's invention because the skilled artisan would easily recognize that the capacitance of capacitor 22 can be set to any value, without any unexpected changes in circuit operation or result.

The control signal input circuit recited in claims 14 and 16 is any of the components, or the supply voltage generating circuitry (not shown), which applies potential to the drain of FET 21.

The limitations of claims 17 and 18, though not disclosed, would have been obvious to those having ordinary skill in the art

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at the time of applicant's invention because the skilled artisan would easily recognize that the value of the control signal can be set to any value, without any unexpected changes in circuit operation or result.

The bias supply circuit of claim 20 is applied to terminal 15.

4. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher.

Note Figs. 1 and 2, where the FET is transistor 12 and the inductor is element 17. The capacitor of claim 2 is capacitor 29, and the capacitor of claim 3 is capacitor 18. The limitations on the last five lines of claim 1, and the last four lines of claims 2 and 3, though not disclosed, would have been obvious to those having ordinary skill in the art at the time of applicant's invention, for the same reasons noted above in the preceding paragraph.

The control signal input circuit recited in claims 4-6 is any of the components, or the supply voltage generating circuitry (not shown), which applies potential to the drain of FET 12. The limitations of claims 7-9 are again deemed to be obvious, for the same reasons noted above in the preceding paragraph.

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The bias supply circuit of claim 10 is voltage source 15.

5. Claims 12, 15 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and so as to overcome the 112, second paragraph rejection.

6. In view of the above-noted new grounds of rejection, not necessitated by applicant's amendments, this action is non-final.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (703) 308-4809. The examiner can normally be reached on Monday through Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached on (703) 308-4876. The fax phone number for this Group is (703) 308-7722.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.



Kenneth B. Wells
Primary Examiner
Art Unit 2816

June 14, 2002